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APPLICATION NO.	N NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/537,755	03/30/2000	Yukio Sugimura	P107314-00001 8434		
7590 05/20/2004			EXAMINER		
	tner Plotkin & Kahn PL	NGUYEN, HUY THANH			
1050 Connecticut Avenue NW Suite 600 Washington, DC 20036-5339			ART UNIT PAPER NU		
			2615		
			DATE MAILED: 05/20/2004	y of	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	ion No.	Applicant(s)				
•				SUGIMURA ET AL.				
	Office Action Summary	09/537,7 Examine		Art Unit				
	•	HUY T N						
	The MAILING DATE of this commun			2615 correspondence addr	ess			
Period fo								
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty (3 period for reply is specified above, the maximum si- re to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no enunication. s0) days, a reply within the statutory period will apply and we will, by statute, cause the ap	vent, however, may a reply be tir stutory minimum of thirty (30) day vill expire SIX (6) MONTHS from plication to become ABANDONE	nely filed /s will be considered timely. the mailing date of this com ED (35 U.S.C. § 133).	munication.			
Status								
1) 又	Responsive to communication(s) file	ed on 26 February 20	004.					
· -		2b)⊠ This action is i						
3)	· <u> </u>							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) 7-13 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by th	e Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
1) 🛛 Notic	e of References Cited (PTO-892)		4) Interview Summary					
3) 🛛 Infor	e of Draftsperson's Patent Drawing Review (f mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date <u>4</u> .		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		52)			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-6 in Paper No. 6 filed 26 February 2004 is acknowledged. Accordingly claims 7-13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Ono et al (6,314,137).

Regarding claim, Ono discloses an image recording apparatus (Figs. 1 and 9-11, column 24, lines 24-45)) comprising:

image compression means (MPEG encoding means 11);

means for storing in a memory input image data as basic image data in a period of a predetermined number of fields as well as feeding the input image data to the image compression means (column 12, line 57 –68 and column 13:

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means for finding, with respect to each of the input image data corresponding to the fields between the field corresponding to the input image data which has been stored in the memory and the field corresponding to the input image data which is to be subsequently stored in the memory (the difference between the video filed of one camera and another camera), the difference between the input image data and the basic image data which has been most newly stored in the memory, and feeding data representing the obtained difference to the image compression means (column 13); and

means for recording on a recording medium compressed data for each field which has been compressed by the image compression means, together with identification information indicating whether the compressed data corresponds to the basic image data (Intra- field) or the difference data (inter- field) (column 5, line 60 to column 6, line 5, column 14).

Regarding claim 2, Ono further teaches an image reproducing apparatus for reproducing the data which has been recorded on the recording medium by the image recording apparatus, (column 15, lines 5-68, column 16, lines 1-10) comprising:

means for reading the compressed data and the identification information from the recording medium;

image expansion means (MPEG decoding means) for expanding for each field the compressed data which has been read from the recording medium arid returning the expanded compressed data to the data which has not been compressed by said image compression means;

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means for judging whether the data for each field which has been expanded by the image expansion means is the basic image data or the difference data on the basis of the identification information;

means for storing, when the data for each field which has been expanded by the image expansion means is the basic image data, the basic image data in the memory as well as outputting the basic image data as reproduced image data; and means for restoring, when the data for each field which has been expanded by the image expansion means is the difference data, the original image data on the basis of the difference data and the basic image data which has been most newly stored in the memory, and outputting the obtained image data as reproduced image data (columns 6 and 15).

Regarding claim 3, Ono teaches an image recording/reproducing apparatus (figs. 1, 14) comprising a recording apparatus and a reproducing apparatus, wherein the recording apparatus comprises image compression means (MPEG encoding means), means for storing in a memory input image data as basic image data in a period of a predetermined number of fields as well as feeding the input image data to the image compression means, means for finding, with respect to each of the input image data corresponding to the fields between the field corresponding to the input image data which has been stored in the memory and the field corresponding to the input image data which is to be subsequently stored in the memory, the difference between the input image data and the basic image data which has been most newly stored in the memory, and feeding data representing the obtained difference to the image compression

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means, and means for recording on a recording medium compressed data for each field which has been compressed by the image compression means, together with identification information indicating whether the compressed data corresponds to the basic image data or the difference data (column 12, lines 60-68, columns 13 and 14), and the reproducing apparatus (column 15 and 16) comprises means for reading the compressed data and the identification information from the recording medium, image expansion means for expanding for each field the compressed data which has been read from the recording medium and returning the extracted compressed data to the data which has not been compressed by said image compression means, means for judging whether the data for each field which has been expanded by the image expansion means is the basic image data or the difference data on the basis of the identification information, means for storing, when the data for each field which has been expanded by the image expansion means is the basic image data, the basic image data in the memory as well as outputting the basic image data as reproduced image data, and means for restoring, when the data for each field which has been expanded by the image expansion means is the difference data, the original image data on the basis of the difference data and the basic image data which has been most newly stored in the memory, and outputting the obtained image data as reproduced image data (column 15).

Regarding claim 4, Ono teaches image recording apparatus (Figs. 1 and 14) for recording on a recording medium a time division multiplex image signal obtained by subjecting image signals from a plurality of video cameras to time division multiplexing

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and having information relating to the camera numbers of the video cameras respectively corresponding to fields included therein added thereto, comprising: storage means (6,7,8,9) respectively provided in correspondence with the camera numbers (column 5, columns 13-14);

means for storing, for each group of fields assigned the same camera number which are included in the time division multiplex image signal, image data as basic image data in the storage means corresponding to the camera number assigned to the group of fields in a period of a predetermined number of fields as well as feeding the image data to the image compression means;

means for finding, in each group of fields assigned the same camera number which are included in the time division multiplex image signal, the difference between each of the image data corresponding to the fields between the field corresponding to the image data which has been stored in the storage means corresponding to the camera number assigned to the group of fields and the field corresponding to the image data which is to be subsequently stored in the corresponding storage means and the basic image data which has been most newly stored in the corresponding storage means (column 13), and feeding data representing the obtained difference to the image compression means; and

means for recording on a recording medium each of compressed data for each field which have been compressed by the image compression means, together with identification information indicating whether the compressed data corresponds to the basic image data or the difference data and the camera number (column 14).

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Regarding claim 5, Ono discloses an image reproducing apparatus for reproducing the data which has been recorded on the recording medium by the image recording apparatus comprising:

means for reading the compressed data, the identification information, and the camera number from the recording medium (column 15);

image expansion means (MPEG decoding means) for expanding for each field the compressed data which has been read from the recording medium and returning the expanded compressed data to the data which has not been compressed by said image compression means;

means for judging whether the data for each field which has been expanded by the image expansion means is the basic image data or the difference data on the basis of the identification information;

means (16,17,18,19) for storing, when the data for each field which has been expanded by the image expansion means is the basic image data, the basic image data in the storage means corresponding to the camera number corresponding to the basic image data as well as outputting the basic image data as reproduced image data; and means for restoring, when the data for each field which has been expanded by the image expansion means is the difference data, the original image data on the basis of the difference data and the basic image data which has been most newly stored in the storage means corresponding to the camera number corresponding to the difference data, and outputting the obtained image data as reproduced image data (column 15).

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Regarding claim 6, Ono teaches an image recording/reproducing apparatus comprising a recording apparatus (Figs. 1.9-11) for recording on a recording medium a time division multiplex image signal obtained by subjecting image signals from a plurality of video cameras to time division multiplexing and having information relating to the camera numbers of the video cameras respectively corresponding to fields included therein added thereto, and a reproducing apparatus for reproducing the data which has been recorded on the recording medium, wherein the recording apparatus comprises storage means (6,7,8,9) respectively provided in correspondence with the camera numbers, means for storing, for each group of fields assigned the same camera number which are included in the time division multiplex image signal, image data as basic image data in the storage means corresponding to the camera number assigned to the group of fields in a period of a predetermined number of fields as well as feeding the image data to the image compression means, means for finding, in each group of fields assigned the same camera number which are included in the time division multiplex image signal, the difference between each of the image data corresponding to the fields between the field corresponding to the image data which has been stored in the storage means corresponding to the camera number assigned to the group of fields and the field corresponding to the image data which is to be subsequently stored in the corresponding storage means and the basic image data which has been most newly stored in the corresponding storage means, and feeding data representing the obtained difference to the image compression means, and means for recording on a recording medium each of compressed data for each field which have been compressed by the

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image compression means, together with identification information indicating whether the compressed data corresponds to the basic image data or the difference data and the camera number (column 14), and the reproducing apparatus (Fig. 15-19, columns 15-16)) comprises means for reading the compressed data, the identification information, and the camera number from the recording medium, image expansion means (15) for expanding for each field the compressed data which has been read from the recording medium and returning the expanded compressed data to the data which has not been compressed by said image compression means, means for judging whether the data for each field which has been expanded by the image expansion means is the basic image data or the difference data on the basis of the identification information, means (16,17,18,19) for storing, when the data for each field which has been expanded by the image expansion means is the basic image data, the basic image data in the storage means corresponding to the camera number corresponding to the basic image data as well as outputting the basic image data as reproduced image data, and means for restoring, when the data for each field which has been expanded by the image expansion means is the difference data, the original image data on the basis of the difference data and the basic image data which has been most newly stored in the storage means corresponding to the camera number corresponding to the difference data, and outputting the obtained image data. as reproduced image data (columns 15 and 16).

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yamamoto and Kirsten discloses a apparatus for recording and reproducing the compressed images from a camera. Shiota et al teaches a apparatus for recording and reproducing time division multiplexed images from a plurality of cameras. Yagasaki et al and Yotomi et al teaches apparatus for compressing the image signal as intra-fileds and inter-fields.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY T NGUYEN whose telephone number is (703) 305-4775. The examiner can normally be reached on 8:30AM -6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Christensen can be reached on (703) 308-9644. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

